State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5306-02

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Load Cell
Single-Point Bending Beam
Model Family: PW6K Series
n_{max}, Single Cell: 5 000
Capacity: 5 kg to 200 kg

Accuracy Class: III

Submitted by:

Hottinger Baldwin Measurements, Inc.
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Contact: Tyson Hatch

Standard Features and Options

The specific capacities, v_{MIN}, and minimum dead loads covered by this Certificate are listed in the table below.

Model	Capacity (kg)	v_{min} (kg)	Minimum Dead Load
PW6K	5	0.0007	0
PW6K	10	0.0014	0
PW6K	20*	0.0028	0
PW6K	30	0.0042	0
PW6K	35	0.0049	0
PW6K	40	0.0056	0
PW6K	50	0.0070	0
PW6K	75	0.0105	0
PW6K	100*	0.0140	0
PW6K	150	0.0210	0
PW6K	200	0.0280	0

* Load cells submitted for evaluation

Nominal output: 2.0 mV/V
4-wire design

Excitation voltage: 10 to 15 Vdc
Material: Aluminum

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: June 14, 2002

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Mike Cleary, Director

Hottinger Baldwin Measurements, Inc.
Single-Point Bending Beam Load Cell
Model Family: PW6K Series

Application: These load cells may be used in Class III scales for single cell applications consistent with the model designations, number of scale divisions, and parameters specified in this Certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the v_{min} values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (n_{max}) and with larger v_{min} values than those listed on the Certificate. However, the load cells must be marked with the appropriate n_{max} and v_{min} for which the load cell may be used.

Identification: A pressure sensitive identification badge containing the manufacturer name, model designation, and serial number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

Test Conditions: Two 20 kg and two 100 kg capacity load cells were tested using dead weights as the reference standard. The data was analyzed for single cell applications. The load cells were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Three tests were run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure.

Results of the evaluation indicate the load cells comply with applicable requirements.

Type Evaluation Criteria Used: California Code of Regulations, Title 4, 2002 Edition

Tested By: Dan Parks (CA)